

CLAIMS

1. (currently amended) A display device including a display screen, and horizontal and vertical display signals, the horizontal and vertical display signals to render an image on the display screen, comprising:

a first and second accelerometers mechanically coupled to the display screen;

a first and second compensation circuits to convert acceleration in horizontal and vertical directions respectively to x- and y-compensation signals, ~~wherein each compensation circuit includes a gain control circuit;~~

first and second adders combining the x- and y-compensation signals with the horizontal and vertical display signals to dynamically adjust a location of the image on the display screen while the display device is subject to movement; and

a predictive controller to anticipate the movement of the display device.

2. (original) The display device of claim 1 wherein the display screen is a cathode ray tube and the compensation circuits operate in an analog mode.

3. (original) The display device of claim 2 wherein the display signals are deflection signals for the cathode ray tube.

4. (original) The display device of claim 1 wherein the display screen is a digital screen.

5. (original) The display device of claim 4 wherein the display signals are address signals for a frame buffer of the digital screen.

6. (original) The display device of claim 1 wherein each compensation circuit further comprises:

a first and second integrator to convert acceleration to position; and

at least one band-pass filter.

7. (original) The display device of claim 6 wherein a low frequency cut-off of the band pass filter is less than one half cycle per second, and a high frequency cut-off is less than a refresh rate of the display screen.

8. (Canceled)

9. (currently amended) The display device of claim 1 wherein each compensation circuit includes a gain control circuit. A ~~display device including a display screen, and horizontal and vertical display signals, the horizontal and vertical display signals to render an image on the display screen, comprising:~~
~~— a first and second accelerometers mechanically coupled to the display screen;~~
~~— a first and second compensation circuits to convert acceleration in horizontal and vertical directions respectively to x- and y- compensation signals;~~
~~— first and second adders combining the x- and y- compensation signals with the horizontal and vertical display signals to dynamically adjust a location of the image on the display screen while the display device is subject to movement; and~~
~~— a predictive controller to anticipate the movement.~~